



YEARLY STATUS REPORT - 2020-2021

Part A

Data of the Institution

1.Name of the Institution		Institute of Science, Nagpur
• Name of the Head of the institution		Dr. Ramdas G. Atram
• Designation		Director
• Does the institution function from its own campus?		Yes
• Phone no./Alternate phone no.		07122501571
• Mobile no		9975849004
• Registered e-mail		ioscnagpur@gmail.com
• Alternate e-mail		sujatadeo24@gmail.com

• Address	R.T. Road Civil lines Nagpur
• City/Town	Nagpur
• State/UT	Maharashtra
• Pin Code	440001
2.Institutional status	
• Affiliated /Constituent	Affiliated
• Type of Institution	Co-education
• Location	Urban
• Financial Status	UGC 2f and 12(B)
• Name of the Affiliating University	R.T.M. Nagpur University, Nagpur
• Name of the IQAC Coordinator	Dr. Sujata Deo
• Phone No.	9665054180
• Alternate phone No.	07122501571
• Mobile	7774080442
• IQAC e-mail address	iqaciosc@gmail.com

• Alternate Email address	ioscnagpur@gmail.com
3.Website address (Web link of the AQAR (Previous Academic Year))	https://www.iscnagpur.ac.in/pdf/AQAR%2019-20.pdf
4.Whether Academic Calendar prepared during the year?	Yes
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.iscnagpur.ac.in/pdf/Academic%20calender%202020-21%20(1).pdf

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 3	A	3.07	2019	14/06/2019	13/06/2024
Cycle 2	B	2.85	2013	05/01/2013	04/01/2018
Cycle 1	B++	81.05	2004	08/01/2004	07/01/2009

6.Date of Establishment of IQAC	01/07/2000
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7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Institute of Science, Nagpur	2202B536-27 Quality upgradation Programme of Government Arts, Science, Commerce, Law and B.Ed. colleges	District Planning Committee	2020 - 365 days	14445000
Institute of Science, Nagpur	22020792-IIa- 06 Government Science Colleges	Government of Maharashtra	2020 - 365 days	2745000

Institute of Science, Nagpur	22020792-IIA-10 Government Science Colleges	Government of Maharashtra	2020 - 365 days	4644800
Institute of Science, Nagpur	22020792-11 IIa Domestic Travel Expenses Government Science Colleges	Government of Maharashtra	2020 - 365 days	100000
Institute of Science, Nagpur	22020792-IIa- 13 Government Science Colleges	Government of Maharashtra	2020 - 365 days	365000
Institute of Science, Nagpur	22020792-IIa-14- Rent Rate Taxes Government Science Colleges	Government of Maharashtra	2020 - 365 days	91000
Institute of Science, Nagpur	22020792-IIa- 17 Government Science Colleges	Government of Maharashtra	2020 - 365 days	1000
Institute of Science, Nagpur	22020792-IIa- 21Government Science Colleges	Government of Maharashtra	2020 - 365 days	40000
Institute of Science, Nagpur	22020792-IIA-28 Professional Services Government Science Colleges	Government of Maharashtra	2020 - 365 days	550000
Institute of Science, Nagpur	2202B536-II2A-52 Quality Upgradation Programme Of Government Arts, Science, Commerce, Law And B.Ed. Colleges	District Planning Committee	2020 - 365 days	30000
Institute of Science, Nagpur	22020807-Iib- 13 Sch In Fyp / Develop Of Government Science Colleges	Government of Maharashtra	2020 - 365 days	300000

8. Whether composition of IQAC as per latest NAAC guidelines

Yes

<ul style="list-style-type: none"> • Upload latest notification of formation of IQAC 	View File
9.No. of IQAC meetings held during the year	6
<ul style="list-style-type: none"> • Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? 	Yes
<ul style="list-style-type: none"> • If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
<ul style="list-style-type: none"> • If yes, mention the amount 	
11.Significant contributions made by IQAC during the current year (maximum five bullets)	
Application for Grant of Academic Autonomy to the Institute of Science, Nagpur	
Application for NIRF Ranking for the Institute	
Signing of six MoU's and two Collaborations for Research	
Online Workshops organised by the department of Physical Education, Botany and Physics	
Celebration of World Environmental Day, Wild Life week, International Tiger day, National Bird week, etc. by the department of Environmental Science	
12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year	
Plan of Action	Achievements/Outcomes
To prepare AQAR for the year 2019-20.	AQAR for the session 2019-2020 was prepared and submitted to NAAC, Bangalore
As proposal of autonomy was submitted by the Institute in 20th January, 2020	Academic Autonomy was granted to the Institute in March 2021, after the Committee visited the

<p>further line of work in 2020-21 should be according to the requirements.</p>	<p>Institute in February 2021.</p>
<p>To fill the online application for NIRF ranking in the category of Colleges.</p>	<p>Online submission of data for NIRF ranking was done in February 2021.</p>
<p>To prepare academic calendar and to follow ii and To form various committees in order to enhance the overall development.</p>	<p>The academic calendar was prepared and followed accordingly till March but again lockdown was declared for the second time by the Center and State Government it was followed online as per the guidelines. Some of the Committees were formed which worked according to the objectives.</p>
<p>To organize online/offline Conferences/Seminars/Workshops on different topics. To organize online/offline Induction meeting for newly inducted semester I Students of UG and PG as per guidelines.</p>	<p>Online Workshops were organized by different departments. One week Induction Meeting was conducted for B.Sc. I students as per the guidelines of UGC.</p>
<p>To enhance the number of MOU's, Consultancies & Collaboration with different agencies. To conduct collaborative activities with respect to research, faculty and student exchange.</p>	<p>Six MoU's and two collaborations were done with different organizations.</p>
<p>Extension of outreach programs through NSS, NCC, Swatch Bharat, AIDS awareness.</p>	<p>Some online and offline programs were organized by the NSS unit of the Institute in collaboration with NGO's etc.</p>
<p>To collect online feedback and analyze it by Statistics department.</p>	<p>Online feedback was collected and analyzed by Department of Statistics.</p>
<p>MOOC's, SWAYAM video /audio to be prepared and uploaded by the staff.</p>	<p>Online lectures and e-content were prepared by maximum number of staff and made available for students for online teaching.</p>

The CCPC will be asked to work on conduction of programs for personality development and more placements.	Nineteen PG students from different department of the Institute were placed in different firms.
Heads are to be instructed to organize different online programs under departmental societies and keep the record of it in the department.	Departmental societies have organized some online programs.
To collect and evaluate the ASA - PBAS from the staff for the session 2020-21.	Only Soft copy of the ASA- PBAS for the session 2019-20 was collected from the staff.
Faculty members are to be appointed as mentors.	Due to Covid - 19 Pandemic mentoring was not done as Students were not allowed to come physically.
Preparation and publication of annual magazine "Replica"	Replica was not published due to Pandemic
To increase the number of Certificates, Diploma/Value Skill added courses.	Due to Covid - 19 Pandemic and due to complete lock down this target was not achieved

13. Whether the AQAR was placed before statutory body? **No**

- Name of the statutory body

Name	Date of meeting(s)
Nil	Nil

14. Whether institutional data submitted to AISHE

Year	Date of Submission
Yes	21/02/2022

Extended Profile

1. Programme

1.1		03
Number of courses offered by the institution across all programs during the year		
File Description	Documents	
Data Template	View File	
2.Student		
2.1		1061
Number of students during the year		
File Description	Documents	
Institutional Data in Prescribed Format	View File	
2.2		815
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year		
File Description	Documents	
Data Template	View File	
2.3		418
Number of outgoing/ final year students during the year		
File Description	Documents	
Data Template	View File	
3.Academic		
3.1		49
Number of full time teachers during the year		

File Description	Documents
Data Template	View File
3.2	83
Number of sanctioned posts during the year	
File Description	Documents
Data Template	View File
4. Institution	
4.1	55
Total number of Classrooms and Seminar halls	
4.2	23311800
Total expenditure excluding salary during the year (INR in lakhs)	
4.3	303
Total number of computers on campus for academic purposes	

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

Institute of Science, Nagpur has developed a clearly defined system for completion & execution of curriculum. Academic planning is done before the start of academic year in accord with all the departments. The academic calendar is prepared by IQAC and is compatible with the University's academic calendar. Academic Calendar gives a clear information about non- academic and extra-curricular activities, sport events, holidays etc. which helps the faculty to accomplish completion of curriculum in each time limit.

Preparation of timetable and distribution of workload is done in advance by every department. Every teacher receives the individual timetable. All the departments are involved in scheduling academic, co-curricular and extracurricular events to enrich the learning process.

Institute of Science Nagpur is affiliated to R. T. M. Nagpur University and syllabus for UG and PG programs designed by the same is followed.

Copies of the syllabus are made available in the respective departments as well as the library for students and faculty. Our teachers are an integral part of the university, being BOS members, Academic council members, syllabus revision committee members who ensure that the syllabus is updated. Well organized curriculum delivery and documentation is possible through the following mechanism:

1. Teaching Plans are prepared by faculty members before commencement of each term. This helps in neat planning of the syllabus topics to be covered.
2. Conducting / participating in subject oriented workshops.
3. Academic Diary is maintained by each faculty member.
4. Along with the conventional method, various other teaching methods like posters, charts, graphs, videos, quiz, group discussions, demonstrations, debates, power point presentations, role play, allied projects, games, industrial tours and visits, lab visits, model making, add-on practicals, open book tests, assignments, seminars, case studies are used for effective curriculum implementation.
5. A robust support for students built beyond the classroom and institution by creating interactive groups on Whatsapp, Google classrooms and emails, where regular exchange of ideas help in the implementation of the curriculum effectively.
6. Regular assignments, class tests, open book tests and tutorials are conducted.
7. Guest lectures by scientists and industrialist are arranged regularly. Seminars and quiz are conducted at the department level and students are encouraged to participate in academic competitions and events.
8. Provision of computer facility & free wi-fi for students at a common centre at library.

All the departments also have small computer lab for post graduate students. Guidance is provided to students for retrieving the information from online resources.

9. Excellent Central library facility with extensive number of books and journals is available.

10. Student's feedback regarding curriculum delivery is undertaken periodically and necessary suggestions are rendered to concerned faculty members.

11. During 2020-21, in accordance with the COVID-19 pandemic, Institute of Science prepared an intricate scaffold & build up a system in a very meticulous way for academic as well as other activities.

In compliance with the regulations of Government for COVID-19, Institute of Science has implemented the online teaching method for 2020-21. Admission procedure was also conducted in online mode.

The Institution has registered for with the G-suite. All the undergraduate & postgraduate students & all the faculty members were provided with the institutional email ids. Google classrooms & WhatsApp groups of students were created. Special training programmes for effective online teaching were arranged for faculty members. All faculty members were also encouraged to participate similar training programmes, workshops & webinars. Timetable was designed for online teaching mode. Examinations were also conducted online arranging the schedule in accordance with R. T. M. Nagpur University. Many activities, guest lectures, webinars were arranged online for students.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

Apart, from the university examination, Institute of Science faculties work continuously on the internal evaluation of students in number of innovative ways. University allows 10 and 20 Marks as internal assessment for UG and PG students respectively. Faculties of the Institute take this challenge of covering entire syllabus in the internal assessments with

above mentioned weightages.

Faculties of the Institute conduct periodic class tests on each unit of the syllabus hence fulfilling the challenge of covering all aspects of the curriculum.

They also regularly conduct surprise tests, take home tests, open book tests, online tests through google forms/classroom and topsy-turvy tests to boost the normal test conducted in the classroom.

Best way to understand if students learned the topic well is to ask them for the presentation on the same topic. Hence at the Institute, we conduct regular presentations of the students from the topics from the curriculum. This is included in the semester activity and internal marks are allocated to it for the PG students. They are evaluated on the basis of the content of their seminar topic, presentation skill, knowledge, communication skill, fluency as well as response to questions put by teacher examiners and the class.

Small projects based on various environmental and scientific issues are assigned to students and their participation is evaluated by experts.

Home assignments are also part of our continuous assessment process. We are organizing department wise Poster display competition and Power Point seminar competitions every year.

Study tours are organized by various departments of the Institute like Botany, Zoology, Chemistry, Environmental Science and Statistics etc. Students are evaluated on the basis of their active participation and information collected during the visit. Students are encouraged to take various internships. But in 2020-21 due to Corona pandemic, such study tours could not be organized.

Project is included as a part of the curriculum in the M Sc SEM IV syllabus. Project work is a part of participative learning. The students choose a project topic in consultation with the guides allotted to them. These projects are based on the field work as well as the work completed in the laboratories. Some students carry out their project work in collaboration with research laboratories and other social organizations. The objective of critical thinking, analytical skill, and collaborative learning skill is fulfilled through such project works. Their project work is continuously monitored and evaluated by the respective guides before the final evaluation by the external examiner. This ensures that the student is well versed with all aspects of the project work undertaken by him/her which may very well form the basis, for the future (higher) research work by the student.

An essential criterion of internal assessment is the attendance of the students in the class, which we are regularly monitoring. Through the above continuous efforts, we have reformed the internal evaluation system of our institute.

Academic calendar prepared and adhered for conduct of Examination and other related matters

At the beginning of each semester, annual academic calendar is prepared by the IQAC committee. Our Institute prepares this calendar taking into consideration the RTM Nagpur University's academic calendar. A broad outline of the calendar is notified at the beginning of the year and also communicated to all the departments. It is displayed on all concerned notice boards of the Institute. The same is also uploaded on our official website. Our institute try to follow the academic calendar meticulously. However, there is scope for inbuilt internal flexibility, which allows individual faculty members or departments to accommodate their own constraints and priorities in finalizing the CIE plans.

Each department displays this calendar and mostly sticks to the schedules mentioned therein. Various activities are conducted at the institutional as well as departmental level including celebration of various days of importance, inauguration of various subject centric societies, guest lectures, blood donation camp, NSS camp, awareness campaign rallies, Socio-cultural activities, sports meet, etc. Thus, for the institute an academic calendar is not only a CIE procedure but a guide for the teachers and the students. The calendar ensures the various academic endeavors in academic sessions and also enhances its scope towards value education, moral and social upliftment of the students.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

**1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University
Setting of question papers for UG/PG programs Design**

B. Any 3 of the above

and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented

NIL

File Description	Documents
Any additional information	No File Uploaded
Minutes of relevant Academic Council/ BOS meetings	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

NIL

File Description	Documents
Any additional information	No File Uploaded
Brochure or any other document relating to Add on /Certificate programs	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

NIL

File Description	Documents
Any additional information	No File Uploaded
Details of the students enrolled in Subjects related to certificate/Add-on programs	No File Uploaded

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Institute of Science, Nagpur is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University and adheres to the syllabus prescribed by the university. The University has included crucial subjects that helps in instillation of moral, social, and professional ethics in the students.

As per the directions of University Grants Commission, the syllabus covers environmental consciousness in the form of Environmental Studies, which is compulsory subject for all the students under RTMNU at III and IV semesters. This expands their interest and knowledge about environment, and related paramount issues like pollution, how to deal with it and how to reduce pollution for the better world.

R. T. M. Nagpur University has started the compulsory course on Environmental Studies at graduate level of all branches & faculties of higher education from 16th July 2007. The curriculum includes 50 lectures spread over six months at the rate of 4 lectures /week. At the end of the course, the student would be evaluated for 100 marks with the distribution as below -

Field notebook- 25 marks,

Objective questions- 50 marks,

Essay type questions- 25,

passing marks- 40.

The candidate will have to pass in the examination of this course in order to obtain degree certificate from the University.

In addition to this course, Department of Environmental Science conducts many programmes, arrange site visits which assists in maintaining & keeping student's interest alive. Few significant events are summarized below.

Department of Environmental Science, Institute of Science, Nagpur in Collaboration with Maharaj bag Zoo Nagpur organized Kickoff event on the occasion of world Environment Day on 5 th June 2021.

Department of Environmental Science, Institute of Science, Nagpur in Collaboration with Maharaj bag Zoo Nagpur also celebrated Wildlife Week during 2 /10/2021 - 08/10/2021.This included invited talks by experts, Live Quiz competition using Google Forum, Wildlife Short film and also some interactive sessions

Department of Environmental Science, Institute of Science, Nagpur in Collaboration with Maharaj Bag Zoo, College of Agriculture, Nagpur and Kamla Nehru Mahavidyalaya Nagpur jointly celebrated Bird Week -2020 during 05/11/2020 to 12/11/2020.

File Description	Documents
Any additional information	No File Uploaded
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

01

File Description	Documents
Any additional information	No File Uploaded
Programme / Curriculum/ Syllabus of the courses	View File

Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	No File Uploaded
MoU's with relevant organizations for these courses, if any	No File Uploaded
Institutional Data in Prescribed Format	View File

1.3.3 - Number of students undertaking project work/field work/ internships

132

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni

B. Any 3 of the above

File Description	Documents
URL for stakeholder feedback report	http://www.iscnagpur.ac.in/iqacupload/Curriculum%20feedback%2020-21.pdf
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	No File Uploaded

1.4.2 - Feedback process of the Institution may be classified as follows

B. Feedback collected, analyzed and action has been taken

File Description	Documents
Upload any additional information	View File

URL for feedback report	http://www.iscnagpur.ac.in/igacupload/1.4.2%20UG%20Teachers%20feedback%20from%20students.xlsx
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TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

1061

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
1061	48

File Description	Documents
Any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

The Institute of Science, Nagpur practices a teaching methodology which focuses on imparting education through a student centric approach. Academic Year 2020-21 was largely hampered by COVID-19 pandemic and series of lockdowns in Maharashtra. Throughout the academic year, Institute of Science, Nagpur as per the directions received from Maharashtra Govt., operated in ONLINE mode only. Nevertheless each teacher facilitates learning by allowing each individual student to comprehend at their personal level by ensuring their involvement in online class activities so that they can absorb and grasp information at their own pace. This is done by giving them online mini projects/assignments and sharing multimedia files which are related to the lecture topics. All teachers took efforts to make classes as interactive as possible in the online mode. They also encourage innovative thought and novel interpretations of the syllabus topics. Google Classrooms, Zoom meetings, arranging online guest lecture from academic and industrial partners of the Institute, review/simulation projects and Virtual labs are some of the means utilized by the Departments to provide experiential and participative learning.

Feedback of the Course and teachers, given by students at the end of each semester provides an opportunity to identify any lacunae which can then be addressed.

File Description	Documents
Upload any additional information	No File Uploaded
Link for additional information	Nil

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

Academic Year 2020-21 was largely hampered by COVID-19 pandemic and series of lockdowns in Maharashtra. Throughout the academic year, Institute of Science, Nagpur as per the directions received from Maharashtra Govt., operated in ONLINE mode only. Therefore, Institute of Science subscribe to Google Classroom Suite. Institute has issued suite mail ids to all faculty members and students through which they get access the Google classrooms. Attendance taking through google meet has been made easier by automatically recording students. This record is saved on a Google Sheet in the Google Drive of individual teacher. Online Classroom teaching was further improved by making use of JAM boards + epic pen/writing pads, power point presentations, multimedia files, etc. Class announcements, assignments creation and valuation was easier with google classrooms. Teacher got the ability to look at students' scores, for a particular assignment. This made it easier for teacher to focus on students, and see where they are falling behind.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

2.3.3.1 - Number of mentors

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

49

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	No File Uploaded
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

File Description	Documents
Any additional information	View File
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

2.4.3.1 - Total experience of full-time teachers

File Description	Documents
Any additional information	No File Uploaded
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

Due to COVID-19 pandemic and series of lockdowns in Maharashtra, internal assessments are planned in such a way that it will encourage students to work independently in online mode. Written Assignments were assigned to students to develop their writing skills. The aim of

these assignments is student can read and search that particular topic independently using different online methods for enhancing the confidence and reasoning skill. Seminars, which form the second component of internal assessment that help students to present their assignments before the entire class helping them overcome stage fear and develop oratory prowess. Apart, from the conclusive university conducted examination, Institute of Science faculties work continuously on the internal evaluation of students in number of innovative ways. Faculties regularly conducted online tests through google forms/quiz/classroom. Small doable at home projects based on various environmental and scientific issues are assigned to students and their participation is evaluated by expert faculties.

File Description	Documents
Any additional information	No File Uploaded
Link for additional information	Nil

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

Academic Year 2020-21 was largely hampered by COVID-19 pandemic and series of lockdowns in Maharashtra. Throughout the academic year, Institute of Science, Nagpur as per the directions received from Maharashtra Govt., operated in ONLINE mode only. All the internal tests were conducted in the online mode through google forms/quizzes. As most of the internal examination is in the form of MCQs, evaluation of the answer sheets was immediate and automatic. During the conduction of the examination, students were not allowed to switch off the video/audio and hence they are being continuously monitored by respective teacher. Grievances, if any, after the examination regarding issues such as internet connectivity, power outage were properly handled by respective faculties immediately after the conduct of the examinations. All the record of the conduction of examination, exam paper and answer sheet of individual students was saved in the respective teacher's Google drive for transparency check. This file can also be accessed by higher authorities for addressing grievances of students.

File Description	Documents
Any additional information	No File Uploaded
Link for additional information	Nil

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

The institution is running Under Graduate (B.Sc.) and Post Graduate (M. Sc.) courses for the students. In academic session 2020-21, 1061 students got admitted in the Institute for different courses. There are 7 subjects in the college for master degree viz. Chemistry, Physics, Botany, Zoology, Mathematics, Environmental Science and Statistics. In addition to this, Physical Education is also introduced in their curriculum to develop student's skills, knowledge, and attitude. The Institute of science, Nagpur, has clearly stated learning outcomes of the Programs and Courses. The following mechanism is followed by the institution to communicate the learning outcomes to the teachers and students.

- Hard Copy of syllabi and learning outcomes are available in the departments for ready reference to the teachers and students.
- The importance of the learning outcomes has been communicated to the teachers in every IQAC meeting and college committee meeting
- The students are also made aware of the same through tutorial meetings

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	Nil
Upload COs for all Programmes (exemplars from Glossary)	View File

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

Institute of Science, Nagpur, is affiliated to RTM Nagpur University, Nagpur. Institute offered Under Graduate, Post Graduate and Research programs under the Faculty Science. For these programs and courses, the institute followed the curriculum designed by affiliated university. The programme outcomes, programme specific outcomes and course outcomes are evaluated by the institution and the same are communicated to the students in the formal way of the discussion in the classroom and departmental notice board. After measuring attainment of POs , PSOs and COs, it has been observed that the strength of the students as well as passing percentage of the students is increasing progressively. Besides, students' progression to the higher studies that is from Under Graduate to Post Graduate seems to be increasing consistently and rapidly in the last three years. In a similar way, the ratio of

students' placement is also increasing. Institute took utmost care of measuring the level of attainment of POs, PSOs and COs and followed formal as well as informal mechanism for the measurement of attainment of the outcomes. On the other hand Institute also took feedback from all the stakeholders in this respect and tries to take necessary steps accordingly. Subsequently, the College took care of the attainment to measure the POs, PSOs and COs and implemented the mechanism as follows:-

- The institute followed the Academic Calendar of affiliated university.
- All the subject teachers maintained Academic Diary in every academic year.
- Internal examination committee analyzed evaluation reports of results.
- Institute considered Feedback from the Stakeholders for the attainment of PO, PSO and CO.
- Placement committee took the review of the Students' Progression to Higher Studies and their Placement.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	Nil

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	Nil

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

Nil

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

Nil

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

3.1.2.1 - Number of teachers recognized as research guides

31

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

1

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	No File Uploaded
Supporting document from Funding Agency	View File
Paste link to funding agency website	http://www.serb.gov.in/home.php

3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Our Institute has created an ecosystem for Research and Innovation encouraging and endorsing for improvement and creativeness by faculty members and research students.

Human Resources: It has an honor of having a unique heritage infrastructure and a legacy of highly qualified and academically active faculty members to mentor and channelize the young minds even after hundred years of its tenure in academics. Faculties are members of prestigious academic bodies of the affiliating University like Academic council, BOS and RRC.

Research infrastructure: The institute has seven recognized Research Centers in the departments and this would be an added advantage to the students to develop their Prototypes. Thirty one faculty members are recognized Ph.D. supervisors and advanced researchers in their own streams. Under their guidance seven research scholars have been awarded Ph.D. during this year and three are pursuing their Ph.D.'s. One of our faculties Dr. Sunil Patil is the Principal Investigator of Major Research Project sanctioned from Science for Engineering Research Board (SERB) with the Cost of the 18.3 lakhs INR. One patent of Dr. Kamlesh Alti and twenty eight research papers are being published in reputed International journals while books, chapters in books, and some papers in conference proceedings are published during this year by different faculties of the Institute. Faculties are also encouraged to participate in various skill enhancement programs under govt. schemes. Institute encourages the faculty members to pursue their Ph.D. work. Thus institute always helps to create research culture among faculty members and students. The Institute has developed Instrumentation Laboratories for each department along with the Tissue Culture Laboratory in the Botany Department. The institute invests a lot of economic

resources for purchase of sophisticated instruments, such as Raman Spectrometer, FT-IR, UV-VIS Spectrophotometer, DTA, HPLC etc. which facilitate the students and teachers to use modern technologies for their research. The faculty and PG students are encouraged to take up research and developmental activities by utilizing the existing resources. Thus the Institute ecosystem is instrumental in enhancing the knowledge base.

Collaborations: The Institute has established research collaboration with LIT, Nagpur and Indian Institute of Tropical Meteorology (IITM), PUNE under which our students get an opportunity to undertake research internship. Institute has signed MOUs with six different organizations; among them one of the MOU is with Maharashtra Centre for Entrepreneur Development (MCED), Nagpur to provide the information on entrepreneurship to the student and faculty.

Initiatives for creation and transfer of knowledge: Institute has always taken initiatives pertaining to creation and transfer of knowledge. The teachers share their knowledge acquired through years of experience and students and researchers transfer their inquisitiveness and enthusiasm towards acquisition of knowledge amongst the teachers and thus an interdependent ecosystem is developed. Faculty members also share their knowledge as experts to other firms. Students from other colleges visit our institute for getting expertise from our staff members as well as research scholars. Entire campus is Wi-Fi enabled. All the departments also have additional high-speed internet connectivity through fiber optics. The Institute has a spacious library well stocked with books and journals. Subscription to INFLIBNET is done making it easy to access international journals and over half a million e-books. Students are constantly encouraged to use this huge database for research and academic needs. Some of the classrooms are renovated as smart classrooms equipped with digital podium and LCD projectors. The second year P.G. students are encouraged to identify research problems in various fields of knowledge and submit their reports in the form of dissertation. The research topics allotted to scholars by any department necessarily visualize, as carrying the potential to make contribution in the knowledge field. We also encourage students to attend and participate in Seminars and Conferences. Besides this our Institute is a recognized centre for distance education through IGNOU. Thus we feel that our institute has created an academic ecosystem favorable to innovations and transfer of knowledge.

File Description	Documents
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Upload any additional information	View File
Paste link for additional information	https://www.iscnagpur.ac.in/iqacupload/3.2.1.%20Innovation%20Ecosystem%20Additional%20Information%202020-21.pdf

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year

5

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

1

File Description	Documents
URL to the research page on HEI website	https://www.iscnagpur.ac.in/pages/criteria-III.php
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	View File
Any additional information	View File

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

28

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year

18

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

Youth is the backbone of our country. Their participation and active involvement in all spheres will naturally lead the nation towards development. To ensure their holistic personality development , interaction of the students and their exposure to various social issues of national importance is extremely essential. Institute of Science, Nagpur has an active NSS cell through which different social activities are planned for each academic year. It has very good interaction and outreach activities with the local society and a strong involvement of students in such activities.

NATIONAL SERVICE SCHEME – NOT ME BUT YOU! These four words are enough to tell the exact motive of this scheme. The volunteers have instilled this motto into their hearts and souls

and they really work accordingly to bring out the best social activities and implementations for the betterment of the society. NSS will always be one of the pathways to walk on, for the upliftment of the society. It will always be a bridge to connect yourself with the world as 'Service to human being is service to God'.

As, many programs are organized on a sequential manner on behalf of the unit but as we all are aware about this year 2020-21 which brought discomfort and instability in the world. In this year the whole world was coiled in the zone of lockdown due to covid-19 pandemic. Regardless of all the situations, the NSS UNIT of INSTITUTE OF SCIENCE, NAGPUR tried to put utmost efforts and brought many ideas into implementation and made a successful attempt in climbing the activities and proving it fruitful and some into consideration of covid 19 pandemic.

Since, all NSS volunteers couldn't reach out to vulnerable people physically, we changed our way of approaching and sensitizing. Our major way to do so was through our social media platforms, NSS, Institute of Science has started multiple campaigns to educate, normalize and help different audience on social media platforms.

NSS Volunteers created awareness You-tube channel for the purpose to spreading messages for the sake of the society. Several volunteers of NSS, Institute of Science along with Program Officer Mr. Shrikant Borkar bravely contributed to the community kitchen during second wave of Covid-19. They worked with the NGO CO-19 NI-SWARTH AANNA PURVATHA PATHAK for 30 days and provided food to needy people. They were involved in preparation of food, packing and distribution.

Apart from these activities NSS Unit, Institute of Science has focused on in house activities by students which serve dual nature as it will prevent them from pandemic and will fulfil their motto to serve for society. The nature of activities includes Nirmalya collection and Eco-friendly Ganesh Visarjan at their home and neighborhood, preparation of Eco-Bricks from waste plastic bottles and used plastic, preparation of Organic Bio-enzyme using household fruit and vegetable waste, installation of Bird feeders at their homes and villages.

All these activities provide students opportunity to interact and develop relationship with their local community and help them to contribute and elevate the social awareness. It has also helped them to make sustainable use of available local resources and engaging local peoples practically in those activities.

Last but not the least, to promote the will to serve the community, NSS unit of Institute of Science, Nagpur donated OXYGEN CONCENTRATORS including the inverter knowing its need to the BAMNI village suffering from the high threats of corona virus. The NSS volunteers were present there and gave service to the villagers suffering. As per this, the unit also collaborated with the NGO Saral Foundation and the local Gram panchayat of the village. This Oxygen Concentrator helped a lot of sufferers and saved their lives. The villagers were very grateful to the unit.

Extension activities in the Neighborhood Community in terms of Impact and Sensitizing Students to Social Issues and Holistic Development

Sr.No.

Name of the Department

Extension activities in the neighborhood community in terms of impact

1. NSS

1. Corona Awareness about guidelines of lockdown to the students of college
2. Mask donations
3. Eco-bricking
4. Science Awareness YouTube Channel
5. Community Kitchen
6. Preparation of various organic Bio Enzymes at home
7. Installation of Bird Feeders

1. To sensitize students for Social responsibility, Health awareness, National Environmental awareness and Holistic Development.
2. To help the needy in Pandemic Situation
3. To reduce plastic waste by making Eco-brick even during this COVID situation.
4. <https://www.youtube.com/channel/UCumvXfFrEsMLNvXITt-DZ-A>
5. To provide food to needy people
6. To create "Harit Ghar" or "Five Star Green Home"
7. To help the birds find food and water during summer

1. Department of Environmental Science :Celebration of Various days/weeks

1. National Bird Week
2. International Day of Forest
3. World Environment day
4. Wildlife week

1. Create awareness among the students about importance of birds in nature, endangered species\habitat, migration of birds, security to their habitats, laws concerning protection and conservation of birds
2. To commemorate the green cover around the world and reiterating its importance
3. To REIMAGINE-RECREATE-RESTORE your NEIGHBORHOOD and to enhance people's livelihoods, counteract climate change and stop the collapse of biodiversity.

1. Department of Botany

1. A guest lecture by Dr. Prafulla Mukadam on "Mucoromycosis.
2. World environment day

1. To elaborate the impact of Mucor Fungus on the health of Covid 19 affected patients.
2. Awareness about the Environment

File Description	Documents
Paste link for additional information	https://www.iscnagpur.ac.in/igacupload/Extension%20Act.%20Additional%20Inf.%202020-21.pdf
Upload any additional information	View File

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

0

File Description	Documents
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Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	View File

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non-Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

8

File Description	Documents
Reports of the event organized	View File
Any additional information	View File
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year

5

File Description	Documents
Report of the event	View File
Any additional information	View File
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year

2

File Description	Documents
e-copies of related Document	View File
Any additional information	View File
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year

6

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	View File
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Response :

The Institute has spacious and heritage campus spread over more than twelve acres of land and offers a very green and pleasant ambience. The beautiful main building designed in British architecture. The building is specially designed as a science learning center with spacious lecture rooms and laboratories. The whole campus infrastructure includes the main building, annex building, boy's hostel, girl's hostel, new library building, canteen, sports complex including ground and gymkhana, vehicle parking space, front small garden etc. The main building is equipped with high capacity class rooms, huge laboratories, spacious office and library. Also the facilities of reading room, girls common room, close auditorium, open auditorium, conference room etc. Academic facilities The Institute has 55 spacious and airy classrooms with wifi / LAN / LCD facilities including subject laboratories as per norms to carry out any academic activity. Further, every department is equipped with their own computing resources along with small departmental library. The Institute has a Central Library which is equipped with many National and International journals, books etc. The central library has its own Computer Centre with 23 Computers having restricted internet access where students have access to learning material. Laboratories All laboratories are huge and equipped with recommended facilities. Few among them are huge laboratories having capacity of 80 students. Department of Chemistry, Physics, Botany, Zoology and Statistics have separate laboratories for undergraduate and post graduate classes. The laboratories are scientifically designed with high roof and ventilation, big open windows, exposed to natural sun light and modern safety equipments. These departments also have special research laboratories where Post graduate and research students can perform their research-oriented experiments. These specially designed laboratories are equipped with advance instrumentations and quality equipments. Co-curricular activities (Auditorium, Open air theatre etc.) The Institute has its own seminar hall named as "Sabhagruha" (Room No. 45). It is equipped with audiovisual equipments along with digital podium. Open air auditorium (theater) is present in the center of main building. This is used for the scientific conferences, social gathering and cultural activities. ICT as a Learning Resource More than 300 computers have been provided to all the departments of the Institute for day-to-day usage by the students and faculty. Every department has its own computing facility to meet the curriculum needs. Laptops are also made available to the departments for faculty usage. Desktop Computers are also provided in staff rooms. Every department is provided with LCD projectors, Laptops, desktops and

overhead projectors, electronic whiteboards with digital podium, printers, and scanners for computer aided teaching. Internet is provided to all the departments and library computer center with 100 and 10 Mbps bandwidth. Necessary software are installed in all the Computers as per the curriculum requirements. Software necessary for the preparation of computer aided teaching material by the faculty is also available. Students are provided with additional access to library computers and photocopying facility.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.iscnagpur.ac.in/iqacupload/4.1.1.classrooms,%20laboratories,%20computing%20equipment%20etc..pdf

4.1.2 - The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Response :

The department of Physical education was established in year 1951. The spacious ground for cricket, football and hockey are the main attraction since those days.

New separate building of physical education department was constructed in the year 2014. This building constructed in 9900 square feet area boasting facility of gymnasium center, yoga center, table-tennis court and rooms for other indoor games.

Sports department is also equipped with a huge ground approximately 3 acres area which is generally used for the training and competitions of cricket, Volleyball Basketball, Kho-Kho, Kabaddi, football, Korfball, Ball badminton games.

The department organizes various Coaching and training programs for the boys and girls' students and also makes them eligible for the inter-collegiate, inter-university, state and national level competitions.

The department provides Coaching and training facility for Yoga, cricket, volleyball, football, badminton, chess, Tug of war, kabbadi, kho-kho, Sepaktakraw, basketball, table-

tennis, archery, softball, baseball and fencing games.

Students are regularly participate in national, state, district, inter-university, inter-collegiate level competitions.

Indoor Sports Facilities:.

The Institute has a well-equipped gymnasium with all modern facilities for Boys and Girls

Sr.No. Indoor Sports Facilities 1 Badminton Courts 2 Table Tennis 3 Gymnasium for Boys and Girls 4 Fencing 5 Caroms, Chess 6 Yoga and Meditation Room 7 Changing room for Boys 8 Changing room for Girls 9 Floor Ball

The Institute has a spacious multipurpose play ground with all modern facilities for boys and girls. Recently State Government has sanctioned Rs. 194 lakhs for redevelopment of this play ground. Also District planning committee has sanctioned Rs. 19 lakh for the play ground. This redevelopment work is in full swing.

sr.No. Outdoor Sports facilities 1 Cricket 2 Softball 3 Baseball 4 Football 5 Volleyball court 6 Basketball court 7 Kho-Kho Ground 8 Kabaddi Grounds 9 Ball-badminton 10 Korf Ball

There is also a closed auditorium and one open air auditorium where various kind of cultural activities are regularly held.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.iscnagpur.ac.in/iqacupload/4.1.2%20Phy.ED.Photos.pdf

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

55

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.iscnagpur.ac.in/iqacupload

	/4.1.3.All%20Depts.pdf
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

14775000

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template)	View File

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

Response: SOUL Software of University Library software is in use for library automation. It is multi-user, multitasking integrated library management software working either on a single machine or in a client-server multi-platform environment. It helps us for the effective preparation of catalogue books, e-books, films, sound recordings, drawings, clippings, articles, reports, letters, pamphlets, serials publications etc. SOUL cataloguing adheres to popular international standards. It retrieves the information in a simple, fast and efficient manner. It supports flexible workflow to cover activities related to acquisition of books, serials control and funds monitoring. Cataloguing: -It is based on AACR2. It catalogues any type of material. Acquisition: -It supports the entire range of activities right from making a proposal to acquire an item, until it is finally paid for and accessioned. Circulation: -It is based on lending rules that we can define and change.

Serials Control: - It allows for tracking receipts of issues, filing claims for issues not received, preparing binding orders. OPAC: On-line Public Access Catalogue offers powerful on-line search facilities to search through library catalogue. It saves valuable time, labour and money to access any reading resources. Reports: - It provides various types of reports required for various government agencies. SOUL software is regularly updated by

UGC-INFLIBNET and various new functions are introduced as per customer requirement. The upgraded version is given by UGC-INFLIBNET free of cost through online. Status of Computerisation of Central Library

Year of automation Name of the ILMS software Nature of automation (fully or partially)
Version 2020-21 SOUL, UGC New Delhi Partially 2.0

File Description	Documents
Upload any additional information	View File
Paste link for Additional Information	https://www.iscnagpur.ac.in/iqacupload/4.2.1.-.pdf

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources

A. Any 4 or more of the above

File Description	Documents
Upload any additional information	View File
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

0

File Description	Documents
Any additional information	No File Uploaded
Audited statements of accounts	No File Uploaded

Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year
(Data Template)

[View File](#)

4.2.4 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

4.2.4.1 - Number of teachers and students using library per day over last one year

0:0

File Description	Documents
Any additional information	No File Uploaded
Details of library usage by teachers and students	No File Uploaded

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

Response: The institute has a modern server room with Windows servers. LAN network is spread across the institute including Office, Laboratories, Library and other working areas. All the computing facility are equipped with high performance and latest edition of computers. All the computers are loaded with latest required software. The LAN network has a configuration Core switch to edge switch. Two leased lines of 10 MBPS (192.168.0.6) and 100 MBPS (192.168.0.2) are used in a network. By using theses two leased lines from BSNL, restricted internet and WI-FI facilities are provided to students and faculty members of institute across the CAMPUS. This computing and internet facility is useful for UG, PG and research students to sharpen and update their knowledge base. Faculties are encouraged to use internet and computer facilities to enhance teaching learning process for overall improvement of students. Some of the faculties use platforms like moodle, Google classroom through G Suit, whatsapp group for effective interaction with UG, PG and research students. From 2015-16, Institute has computer labs in various departments for use of UG, PG and research students of Institute, also modern workstations were made available to these computers. In addition to the above, Govt. of Maharashtra provides loan facility to teaching and non-teaching staff for buying laptops and computers for personal use. The institute has 14 classrooms with LCD projection facility and 04 seminar halls with ICT facilities in the department which are used for regular teaching and also extensively used for presentations, seminars and interactive sessions. All the classrooms are wi-fi enabled by dedicated access points. In 2016-2017, institute procured six laptops and six LCD

projectors under UGC-CPE scheme. Further eight classrooms have been converted to smart classrooms with digital podium, interactive boards and other necessary peripherals. All the faculties use this effective methodology to enrich the learning process of students. Four digital notice boards were procured from grant of RUSA in 2019-20 for speedy circulation of information and notices.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.iscnagpur.ac.in/iqacupload/4.3.1..pdf

4.3.2 - Number of Computers

303

File Description	Documents
Upload any additional information	No File Uploaded
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution

A. \geq 50MBPS

File Description	Documents
Upload any additional Information	No File Uploaded
Details of available bandwidth of internet connection in the Institution	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)

7719908

File Description	Documents
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Upload any additional information	No File Uploaded
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response: The Institute has a Local Advisory Committee that deliberates every year on the various infrastructural and academic needs of the Institute. Institute makes budgetary provision under different funds for maintaining and utilizing the campus infrastructure facilities. Various monitoring committees such as purchase committee, building committee, UGC planning board committee, hostel monitoring committee, library committee ensure that the allocated funds are utilized judiciously. The details of budget allocation for maintenance and repairing of physical, academic and support facilities during the last five years are mentioned in metric 4.4.1. To maintain the infrastructure campus facilities and equipments, following activities are undertaken by Institute.

- Maintaining department wise stock register.
- Department wise annual stock verification.
- Regular maintenance of laboratory equipments and chemicals.
- Overall maintenance of campus by campus discipline and cleanliness committee of the Institute.
- Regular cleaning of water tanks, proper disposal of garbage, pest control, landscaping and maintenance of lawns.
- Maintenance of all facilities and cleanliness of environment in hostel by hostel monitoringcommittee.
- Outsourcing is done for maintenance and repairing of CCTV, computers, internet facilitiesincluding leased lines, Wi-Fi and broadband, updating of softwares.
- Maintenance of wooden furniture of institute is done as and when required with the help of PWDand other agencies.
- Electrification, and plumbing work by state PWD.
- The maintenance of the reading room and stock verification of library books is done regularly by library staff. Librarian presents Annual Library Budget of various

departments for each subject. This committee deliberates on the budgetary allocations, evaluates the previous year's library activities and proposes new services, acquisition for the current year.

- Sports and gymnasium is managed by the Sports Committee that advises the Physical Education Director in planning optimum utilization of sport facilities. Outsourcing is done for the maintenance of gymnasium. The grounds for various sports are maintained regularly.
- Classrooms are provided to get opportunity of ICT based teaching in the smart classrooms for all the departments. The Time-Table committee and the faculty Coordinators chalk out time-table,

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.iscnagpur.ac.in/igacupload/4.4.2.pdf

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

651

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	No File Uploaded
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non-government agencies during the year

46

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following:
Soft skills Language and communication skills Life skills
(Yoga, physical fitness, health and hygiene)
ICT/computing skills

D. 1 of the above

File Description	Documents
Link to Institutional website	https://www.iscnagpur.ac.in/pages/criteria-V.php
Any additional information	No File Uploaded
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

46

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

46

File Description	Documents
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Any additional information	No File Uploaded
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

B. Any 3 of the above

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
Upload any additional information	No File Uploaded
Details of student grievances including sexual harassment and ragging cases	No File Uploaded

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

19

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year**5.2.2.1 - Number of outgoing student progression to higher education**

137

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	No File Uploaded
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)**5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year**

14

File Description	Documents
Upload supporting data for the same	View File
Any additional information	View File
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

5.3 - Student Participation and Activities**5.3.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state /national / international level (award for a team event should be counted as one) during the year****5.3.1.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national / international level (award for a team event should be counted as one) during the year.**

15

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded
Number of awards/medals for outstanding performance in sports/cultural activities at university/state /national/international level (During the year) (Data Template)	View File

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

Students of the institute had a place in the institute's functioning through the Students Representative Council (SRC) and Academic Forums through which the students play a key role in the inception, planning and implementation of different co-curricular, extra-curricular and sports activities.

Institute provides full support to the students representation in various academic, sports and administrative bodies. Student task force (previously called as Students council) is enacted each year as per the Maharashtra Universities Act 1994 40(2) (b) (vii) up to 2014-15.

The representatives are selected on the merit basis and a few are nominated by the director. After declaration of the members of the council, the students were allotted the academic and administrative committees. This council meets at least two times in a year to discuss on various issues and provide valuable suggestions to the administrator.

Each year annual social gathering is organized. This mega event is totally controlled and administered by students with the support and guidance by staff members. The major activities are intra-collegiate sports, cultural and academic competitions. The student committee for each event takes a lead in making this event successful.

LACF, Literary Art and Cultural Forum which gives message of brotherhood is a prime and unique feature of Institute. Under LACF the students participates in various cultural, co-curricular activities and extracurricular events as well. The students are trained in such a way so that they can participate University, State and intercollegiate events. LACF executes various literary and cultural programs at college level and also selects students

for intra and inter- university competitions

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

10

File Description	Documents
Report of the event	View File
Upload any additional information	View File
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions) (Data Template)	View File

5.4 - Alumni Engagement

5.4.1 - There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

"AASCON" i.e. The Alumni Association of the Science College Of Nagpur, now Institute of Science, Nagpur

Central Office

The Central Office of the Association shall be situated at the Department of Physics. Indian Institute of Technology, Powai, Bombay-400 076.

Objectives

- To encourage, foster and promote close relation between Institute of Science and its Alumni and among the Alumni themselves.
- To provide and disseminate information regarding the institutions, its graduates, facilities and students to Alumni.
- To ensure that programs are initiated and developed for the benefit of the Alumni.
- To guide and assist Alumni who have recently completed the courses of study to obtain employment to engage in productive pursuits useful to the society.
- To establish and maintain a link with all the students and with the community at large.
- To preserve and promote the interest of the Alma Mater through Alumni involvement in its future and governance.
- To participate and assist in the promotion of Institutions as a major destination for higher education.

About 20 students receive scholarships every year amounting to approx. of rupees more than 2 lakhs. In 2019-20 the total amount of scholarship given to students was 201503/- in the annual meeting held on 28th October 2020.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs) **A. \geq 5Lakhs**

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

The mission of the Institute is implicit in its logo which includes PER ARDUA AD ASTRA which literally means BY TOILSOME WAY TOWARDS THE STARS. It is with this slogan, our Institute is making its way towards achieving the goals. VISION "The vision of the

Institute is to inculcate scientific temper among students to address global challenges by advancing the frontiers of science, by producing scientifically-trained leaders and innovators and enhancing public understanding of science." MISSION Our mission is to bring the benefits of science to society by providing access to a rich educational experience that will motivate and enable all of our students to seek the highest levels of intellectual achievement in the Physical, Chemical, Mathematical and Biological sciences and attain an all-round personal growth with high moral values. The mission of the Institute is the accomplishment of its vision. Accordingly our Institute offers undergraduate and post graduate programs in Science, besides research. The Institute inculcates scientific temper among students to address global challenges. Participation of Teachers in the decision making bodies of Institute is reflected in governance. Our Institute works more effectively, sensitively, responsibly through its performances for accomplishing the vision. We strive hard to promote quality higher education, to create a sensitive, responsive and qualitative human resource for the country with duly inculcated human, social, democratic, environmental and nationalistic values in them. The Institute is owned and managed by the State government; hence it runs as per the policies and norms laid down by it, there are four levels of governance i.e. first, policy framing by state ministry of higher and technical education, second, execution of policies through Director of higher education, third, routine and micro level management along with regular progress and development by Director of Institute, and the fourth level of governance comprising of heads of department, teaching/non-teaching staff, various committees and other cells. These committees make the governance decentralised and participatory. Most of the functions and services in governance have been computerised and automated leading to faster and more transparent operations. The members of teaching and non-teaching staff, representatives of students and alumni are the major stakeholders who get a chance to participate in and contribute to various aspects of planning and decision making, thus following the principle of participatory management. The different departments of the Institute are supervised by heads of the department who have freedom and responsibility to manage their own affairs. All the departments are very well equipped with separate facilities for efficient and result oriented functioning. Our Institute meticulously follows norms and procedures as per the directives and policies of State Ministry of Higher and Technical education, the affiliating University, and UGC. Thus, efforts are made at all levels for successful execution of mission with a view for accomplishment of vision. The outcome of effective governance is evident from the recognition received by our Institute from NIRF 61 from Ministry of Education, India.

File Description	Documents
Paste link for additional information	http://www.iscnagpur.ac.in/iqacupload/6.1.1.pdf
Upload any additional information	View File

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

Academic matters, infrastructure maintenance, utilization and campus development are looked after by various committees in consultation with the Director of the Institute. All heads of departments look after specific and smaller aspects of governance and management. The administrative and academic heads of the Institution supervise all committees for their effective functioning. The management system of the Institution is decentralized and participatory in nature. A considerable autonomy, freedom and support are provided by higher level management (Director of Higher Education) to our Director and faculty. All levels of management work on the principles of team work, collective responsibility, cooperation, freedom and participation. There are similar mechanisms for overall coordination and monitoring. Being a state government owned Institute; the objective is to impart quality scientific education to all segments of society. The Director of the Institute looks after routine and micro level management and its regular progress and development. The responsibility of administration primarily lies with the Director. In case of academic matters, the various departments work in tandem for achieving the overall goals of the Institute. The registrar, office superintendent and other staff assist him as per the roles earmarked for them. Financial resources are managed by the Director and finance committee. Adequate representation of teaching and non-teaching staff, and in some cases, of students and alumni is ensured for decentralization. Decentralization and participative management: Our institute categorizes various activities as departmental, academic and administrative and finance related. All activities are supervised by the heads and supported by other stakeholders. For example, the meetings of the heads with their associates are regularly held for planning and execution of different academic and other allied activities. As regards the purchase of items, meetings of the Heads of the department with the Director are held regularly. During such meetings the purchase list is finalized and funds are allocated according to the various needs of the departments. The finance committee is then entrusted the work of actual purchase.

File Description	Documents
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Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Our Institute strategically plans activities and executes them in a planned manner. The activities are decentralized at four levels as departmental, administrative, academic and financial. At the departmental level, the strategic plans are prepared with the consent of faculties; the academic strategic plans are made before commencement of academic session by preparing academic calendar of that year taking into consideration the academic calendar of RTM Nagpur University, Nagpur. Administrative committees that are formed at the beginning of the session are responsible for all student and staff related activities. The most successful example of such an implementation is the strategic planning done by finance committee. Our institute receives financial guidelines from Government and quasi governmental agencies. As per these guidelines, financial proposals are prepared as per the requirements of various departments.

Strategic plan: - In 2020-2021 our Institute received guidelines from the State government for various funding proposals along with District planning commission. We prepared our strategic plan as per their guidelines of DPC. The plan aimed at up gradation of our institute with student centric mindset.

A Detailed Project Report (DPR) on thrust areas of overall development viz., infrastructure, and modernization and up gradation of Boys and Girls Hostel besides provision and augmentation of various facilities for students was prepared and this proposal was submitted to DPC. The project directorate of DPC sanctioned the proposal.

IMPLEMENTATION: 1.The DPR for proposal was submitted to DPC which accepted the proposal and sanctioned 17655.000 lakh rupees for our institute.

The director held a series of meetings with heads of the Departments and attended many meetings with DPC monitoring committee so that the plan could be implemented successfully. Thus the implementation of Phase- I of plan was carried out successfully. We considered the following important components for the development of our institute during this phase.
Extension of Existing Girls Hostel Facility 1.Boys Hostel: Roof Repairing and Water

proofing 2.Boys Hostel: Windows & Door Replacement 3.Boys Hostel: Repair of Existing Drainage Line 4.Boys Hostel: Replacement of Pipe Line and Taps 5.Provision of chairs/ furniture and cubicles for Professors,

6.Providing BEDS and Mattress and chairs at Girls Hostel, 7.Construction of Well and switch control in premises.

This is how we implement the strategic planning and after deployment we plan for next year.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	http://www.iscnagpur.ac.in/iqacupload/DPC%202020-21.pdf
Upload any additional information	View File

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

Our Institute is a purely state government owned body, which comes within the ambit of state Ministry of technical and higher education. The Institute is managed as per the policies, rules and regulations laid down by the State government. The Organizational structure of the Institution, administrative setup, appointments, service rules and functions of various bodies are enumerated as under.

Sr. No.

Contents

Functions

1

Main Governing body consists of :- Minister of Higher and Technical education State Minister of Higher and Technical education Secretary of Higher and Technical education

Policy framing, Academic and financial management. Overall control. Final authority

2

Director of Higher Education(DHE)at State level

Overall supervision Execution of policies Administrative and financial control

3

Director of Institute

Overall In charge of the Institution Execution of policies at ground level In charge of Administration and finance of Institute Responsible for overall Academic progress and development of Institute Management of routine day to day affairs of Institute

4

Joint Director (Regional)

5

Head of Departments, Teaching Staff, Registrar, Office Superintendent, nonteaching staff , various Committees

Head of Department is responsible for smooth functioning of respective departments Teaching and non-teaching staff to perform designated functions and duties. Registrar responsible for office staff and related matters. Different Committees to look after specific micro level aspects All the above to assist the Director for efficient management of Institute

All teaching and non-teaching staff is appointed by Maharashtra government. As such service rules as per provisions of MCSR are applicable to them.

All educational institutions including ours that are owned by state government work out the requirement of teaching staff and forward the same to the Director of Higher education, who in turn submits a consolidated requirement of staff to the Ministry of Higher and Technical education for approval. This is then forwarded to Maharashtra State Public Service Commission (MPSC) for recruitment. Depending upon the vacancies, MPSC invites applications from eligible candidates throughout the state and after scrutiny and interview; candidates

are selected for appointment to appropriate posts. Similarly the requirements of non-teaching staff are communicated to the Government of Maharashtra through the joint director. After getting the necessary sanction, the recruitment of non-teaching is carried out by the Joint director. Circulars regarding promotions of teaching staff to the next scale/grade are received from the DHE's office from time to time. The faculty members who are due for placement fill the forms according to the CAS guidelines. All such applications are recommended and forwarded by the Director to the higher authorities for placement and promotion. Similarly, circulars regarding promotions of non-teaching staff to the next scale/grade are received from the Joint director's office. There are committees to deal with particular grievances, for example, Anti ragging committee and Discipline Committee. Additionally, there is an Internal Complaints Committee which deals with all kinds of grievances including protection against sexual harassment at workplaces.

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	http://www.iscnagpur.ac.in/iqacupload/6.2.2%20Organogram.pdf
Upload any additional information	View File

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

B. Any 3 of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	View File
Screen shots of user inter faces	View File
Any additional information	View File
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non- teaching staff

Welfare measures provided by Employer i.e. State Government being a state government owned Institute employees are provided the following welfare facilities. 1.Provident fund facility 2.Medical expenses reimbursement facility 3.Group Insurance facility 4.Leave Travel Concession within Maharashtra 5.Various leave facility i.e. medical leave, casual leave, earned leave etc. 6.Duty leave to faculty members for attending national and international conferences/seminars/workshops/ guest lecturers/referee. 7. Recreation and sports facilities for staff and faculty on the campus made available to them free of cost. 8. Special duty leave to staff for participation in sports events held at state, national and international level 9.Pension scheme after retirement as per state government norms 10. Providing employment to dependent successor of deceased employee on compassionate ground 11.Various loan facilities e.g. housing loan, computer, vehicle loan etc. 12.Medical reimbursement facility for family of employee.

2. Self-Generated Welfare measures by Employees There are certain self-generated welfare facilities by employees created on collective, cooperative basis which are as under 1.Registered employees credit cooperative society is formed to offer short term and long term loans/deposits, education loan, rice loan to employees on convenient and reasonable terms. 2. Provision of emergency loan in case of an emergency related to the society member and/or family member. 3. Every year employees get dividend on shares and some gifts from the profits earned by credit society. 4. Society organizes Health checkup camps for all members and their families 5.Society follows the directives/guidelines given by state cooperative departments like Plantation programs. 6. Society felicitates the meritorious wards of members every year.

File Description	Documents
Paste link for additional information	http://www.iscnagpur.ac.in/igacupload/6.3.1.pdf
Upload any additional information	View File

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

0

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

0

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	No File Uploaded
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	No File Uploaded
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

32

File Description	Documents
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IQAC report summary	No File Uploaded
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	No File Uploaded
Upload any additional information	View File
Details of teachers attending professional development programmes during the year (Data Template)	View File

6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

The Institute conducts the performance appraisal of its teaching and non-teaching staff through a combination of ways. The Institute has formed Academic Audit committee, which looks after Performance Based Appraisal System. For performance assessment of the teaching staff, all faculty members are required to submit a Performance Based Appraisal System (PBAS) every year based on the performance appraisal norms suggested by the UGC. Institute follows the mechanism, in which IQAC committee circulates notice regarding submission of PBAS with required documentation within a stipulated deadline. The administrative office collects hard copies of all teaching faculties and forwards the same to the Academic Audit committee which carries out a detailed assessment of reports based on the documents provided. After analyzing individual reports, the committee recommends the desirable activities which are to be done by faculty to increase his/her scoring. Circulars regarding placements to next scale/grade are received from the DHE's office from time to time. The Placement and Fixation Committee personally guides those faculty members who are due for placement to fill the forms according to the guidelines. All such applications are recommended and forwarded by the Director to the higher authorities for placement and promotion. Many of the staff members have received their due placements after fulfilling necessary requirements. The data submitted to the above committee by individual faculty members is also used as one of the measures of performance assessment. Secondly, the teaching faculty is required to maintain an annual diary which contains records of teaching assignments handled by the faculty during the year, in addition to other co-curricular and extra-curricular work, Institute and University assignments, professional development activities, community outreach activities, research and publications and administrative work. The work of teachers on various committees on which they are members is also taken into consideration while assessing the performance. The Director also contributes personal observations and interactions with the faculty members as a measure of performance assessment. In this way, the college tries to make a holistic and multi-source appraisal of the performance of the teaching staff. Like the teaching staff, the Institute also strictly follows the systematic procedure for performance appraisal of the non-teaching staff.

Annual Confidential Reports (CR) is filled by the office considering their performance and compliance to the orders of the administration. The Heads of the departments with which the non-teaching staff are associated are taken into confidence while preparing the CRs. These CRs are verified by the Director with his prudence and sent to the Director Higher Education, Pune for further procedure.

File Description	Documents
Paste link for additional information	http://www.iscnagpur.ac.in/igacupload/6.3.5.pdf
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

Being a government Institute, audit is conducted by Accountant General (A.G.). The utilization of current year approved budget along with the budget projected for the forthcoming year is submitted to Director higher education, Pune every four months. Unless Account statement is verified, the budget for forthcoming year is not sanctioned by Director higher education. So it is in way similar to internal audit. A. G. audit is done once in five years. The audit of funds received from various funding agencies, like DPC & RUSA is done by A.G. The audit of funds received from UGC is done by C.A. The utilization certificate for all the grants is submitted to the respective agencies. For any audit objection, the mechanism for settlement is as under 1. Personnel from External Audit Party (EAP) i.e. A.G. Office, Nagpur are deputed for carrying out audit work. 2. On conclusion of audit of a particular period, EAP (A. G.) inform their final objections/queries (If any) to the Head of the Administrative Unit i.e. Director of our Institute in the form of an Audit Report. 3. EAP specify the control issues i.e. they comment on the points where the controls are required to be established or tightened to avoid repeating the same mistakes in future. 4. On receiving information of audit objections/queries, remedial actions are immediately initiated regarding the monitoring of internal controls to avoid repetition of the objection. Follow up is carried out regularly so that compliance of the observations is done within shortest possible time. 5. EAP provides a time limit for settlement of objections if there are major pending audit objections. Such matters are followed up and monitored periodically to ensure timely compliance. Although we try to comply with the audit objections within time frame, there are certain issues which can only be settled by

the higher authorities. In such cases higher authorities are informed and requested to sort out the discrepancies at their earliest. 6. The Audit objections are settled with proper compliance and communicated to the A. G. by Director of the Institute.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.4.2 - Funds / Grants received from non-government bodies, individuals, philanthropers during the year (not covered in Criterion III)

6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

11.40672

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	View File
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

The following resource mobilization policy is implemented meticulously in our institute. We prepare strategic plans aimed at up gradation of our Institute on thrust areas of overall development viz., infrastructure, modernization of laboratories, up gradation of classrooms and augmentation of various facilities for students and submit the same to various agencies like State Government, RUSA, DPC, DST and UGC. Faculty members submit research proposals to UGC, DST and other agencies including RUSA. Our Institute approaches various alumni and the alumni association of our Institute for financial assistance in the form of scholarships. Every year AASCON, the alumni association of our college donates more than one lakh rupees for grant of scholarship to students. The various grants received from all such agencies listed above form a major portion of the resources of our Institute.

At the commencement of every academic session, the strategic budget plan is prepared for optimal utilization of resources. 1. Every year, the budget prepared by the Institute for carrying out construction, repair and renovation of the Institute building and premises besides purchase of instruments and chemicals is submitted to state government and other agencies such as University Grants Commission (UGC), RUSA, DST and DPC for sanction. 2. After receiving the grants the Director who is the Chief Disbursing Officer, in consultation with the Finance Committee and the Purchase Committee disburses the amount to the respective departments. 3. All the purchases are carried out according to the Maharashtra Government Resolution. 4. The utilization of the budget is monitored regularly by the Institute as per the guidelines of the funding agencies. 5. The scholarship amount received from the donors is awarded to the deserving students after due verification.

File Description	Documents
Paste link for additional information	http://www.iscnagpur.ac.in/iqacupload/DPC%202020-21.pdf
Upload any additional information	View File

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Internal quality Assurance Cell (IQAC) is the most significant cell of our Institute. It has immensely contributed towards development of Institute. Various initiatives taken by the cell have brought laurels to our Institute directly and indirectly. IQAC takes a lead in organising various academic, co-curricular and extracurricular activities for the overall development of students and faculty members. The significant initiatives by IQAC in Teaching Learning Process: In year 2020 to 2021 due to COVID-19 pandemic regulations, social distancing was observed. But by following government norms IQAC took initiative for teaching learning process by adopting Learning management System (LMS). Cloud based LMS and G suite for education were used for taking online classes. G suite was subscribed from Google LLC. Time table for online classes was prepared and classes were taken by Google meet Google classroom, jam boards and YouTube videos were used. For examination Google classroom and Google forms were used. In this way IQAC played important role for teaching learning process. It is a matter of great pride that our Institute along with the academics in UG and PG level contributes towards research activity. For the latest innovations in the field of Science, Technology and Holistic development of students, IQAC takes initiative in

organizing conferences, workshops and seminars, so that the students can face different challenges in the era of globalization.

During this year, IQAC organized various webinars in view of COVID-19 pandemic.

List of Webinars organized is as follows. 1. 03 days National Webinar on PBAS-API (for Physical Education Directors) Revised & Updated According to UGC Guidelines As Per 6 Pay & 7 Pay Regulation, from 11-13 August 2020. 2. 2 weeks Yoga Camp / webinar from 22 October-3 November (2 weeks) 3. 1 week Karate Camp (workshop), from 5-9 March 2021. 4. National one Day Webinar on New Sports Policy, from 3/12/2021. 5. One day National Webinar on How Bhramary & Meditation Helps to Concentrate on Studies in Exam Time, on 3/28/2021 6. National Yoga Camp, 10-16 May 2021 (1 Week) 7. Yoga Workshop on the eve of International Yoga day from 18-22 June 2021

8. National Webinar on Neuroscience of Adolescence from Turmoil to Tranquility, Care to be taken after vaccination & Mucor Mycosis (Black Fungus) and white Fungus: Symptoms, precautions and remedies, on 6/12/2021.

File Description	Documents
Paste link for additional information	http://www.iscnagpur.ac.in/iqacupload/6.5.1%20C.pdf
Upload any additional information	View File

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

Our institute plans the teaching, learning and evaluation schedule by preparing the academic calendar at the commencement of every academic year. This calendar contains relevant information regarding the teaching, learning schedule (working days), various events to be organized, holidays, dates of internal examination etc. The IQAC plans the academic activities at the beginning of the year and accordingly various departmental committees are entrusted with the implementation of these plans. At the end of the year, review of the activities is taken and a tentative future plan is prepared for the next session. The Director, Heads of various departments, and the coordinator of IQAC review the teaching learning process regularly.

The IQAC holds meetings periodically: With the Heads of the Departments every month under

the chairmanship of Director to review the progress of academic activities such as, the number of classes held, syllabi covered in subject, Internal Examinations conducted and teaching diaries are verified with annual plan and also to identify, bottlenecks, if any, in administrating various program. With administrative staff to review the progress in respect of Institute administration and steps to be taken for improvement. IQAC conducts periodic review of the academic and administrative functioning. Further, the IQAC collects feedback information from students on Teaching - Learning performance at the end of each semester. The information obtained is analyzed and steps to be taken for necessary improvements are passed on to the concerned departments. The Learning - Outcomes are reviewed after conducting of Internal Examinations and it calls for a one-on one meeting with the faculty of each department to make an assessment of their performance. It evolves mechanism to record and monitor the performance of each student through Concerned Departments.

July 2020 to June 2021 was the period of Pandemic and social distancing due to COVID-19. IQAC took initiative for teaching learning process by using Learning Management System. We have subscribed G-suite from Google for education. Through G-suite, all admitted students and faculties were registered. From August 2020 online classes were started using this G-suite and syllabus and courses were completed in due period. Online time table given for this purpose. Also online examination was possible by using G-suite. For taking classes Google meet, Google classrooms, jam boards and YouTube videos were used. For examination Google classrooms and goggle forms were used. Administrator has access to monitor the engagement of classes and evaluation by using G-suite. In this way IQAC played important role for teaching learning process.

File Description	Documents
Paste link for additional information	http://www.iscnagpur.ac.in/iqacupload/G%20suite%20Google%20Workspace%20Subscription%20Information.pdf
Upload any additional information	View File

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for

C. Any 2 of the above

improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

File Description	Documents
Paste web link of Annual reports of Institution	https://www.iscnagpur.ac.in/iqacupload/6.5.3.Quality%20assurance%20initiatives%20of%20the%20institution%202020-21.pdf
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Institution promotes gender equity by providing facilities such as

1. Safety and Security: Ever since its establishment, our institute is co-educational providing equal opportunities to both male and female students. Our institute takes extra care and measures not only in ensuring proper security and support to girl students, but also in being sensitive to gender related issues. CCTV cameras have been installed at various strategic locations of the Institute. The Director can visualize all the activities on the central TV monitor in his chamber. Committees like internal complaint committee, the Anti-Ragging Committee and the Grievance Redressal Committee look after grievances of all kinds. The Internal Complaint committee which has been formed for protection of students and staff against sexual harassment specifically looks into gender related matters.

2. Counseling: The internal complaint committee and Women's Cell ensure that the girl students are made aware of issues related to the gender sensibility. Various programs and group discussions are organized on a regular basis to create awareness among the students about gender balance and equality. But due to COVID-19 Pandemic, online counseling sessions were arranged by Physical Education department. Guidance is also given on self-defense, nutrition and health, yoga and mental fitness.

3. Common Room: In our Institute, a spacious common room with attached toilets has been provided specially for the girl students. The common room is well furnished with good seating arrangement and water cooler. Separate dust bins for biological waste and dry waste are kept in common room. Sufficient number of chairs and tables are available for carrying out study during free periods and for taking lunch and rest.

4. Initiatives of the Physical Education Department: The physical education department has a state of the art Gymnasium which is made available to both male and female girl students and staff. There is a separate timing for using this facility by female students. Separate room for Yoga and meditation for girls and female faculty members is also available in the physical education department. The Physical education department also took very good initiative by organizing karate self defense camp. In all activities of the institute, boys and girls work together for success of each program so that gender equity is observed in all activities.

File Description	Documents
Annual gender sensitization action plan	Nil

Specific facilities provided for women in terms of:a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	Nil
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7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment

B. Any 3 of the above

File Description	Documents
Geo tagged Photographs	No File Uploaded
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Solid waste management: Separate dust bins are provided to collect wet and dry waste which is useful to segregate waste at the source. All solid waste is collected in large bins inside the Institute campus. The disposal of solid waste is managed with the help of registered agency deputed by Nagpur Municipal Corporation who pick up the solid waste generated in the campus from time to time. Besides this, compost pits have been prepared which are filled with leaf litter and inoculated with earthworms. The debris undergoes degradation by worms. The compost generated from pits is collected and used as bio-fertilizers for plants in our premises. An important aspect of waste management is to reduce the amount of waste as much as possible and easily dispose it rather than to produce large amount of waste and make its disposal difficult. A substantial part of solid waste in an educational institution like ours is paper. Our institute works on the principle of reduce and reuse in this case. Efforts are constantly made to reduce the usage of paper through computerization, digitalization and use of electronic communication across all departments of the Institute.

We constantly strive to make our campus plastic-free. The NSS unit of our Institute plays an important role in sensitizing the staff and students about plastic free campus and plastic free society. As part of this campaign we prepared Eco-Bricks.

Liquid waste management: The liquid waste generated in the all the laboratories especially chemistry laboratory is disposed by following the prescribed regulations keeping in view the safety of students, staff and environment.

E- Waste management: As part of its eco-friendly practices, our institute tries to manage all types of waste as efficiently as possible. Being a government organization, e-Waste is disposed through write-off procedure after coupling with necessary Government rules.

Preparation of various organic Bio Enzymes at home

The idea of this activity was taken from the workshop of "SIP VIDARBH " means Social Internship Program. This program is frequently organized by various environmental organisations in Vidarbh region. It was conducted online due to Covid-19 restrictions. The objective of the program is to create "Harit Ghar" or "Five Star Green Home ". Oxygen which is essential for respiration and it plays a critical role in our life. It is only generated by plants, if there will be no plants then there will be no life's. So this enzyme help plants to grow and stabilize the soil by degrading wastes and mediate nutrient recycling. Adding enzyme to plants will enrich them with nutrients.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	No File Uploaded
Geo tagged photographs of the facilities	No File Uploaded

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	No File Uploaded
Any other relevant information	No File Uploaded

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

B. Any 3 of the above

File Description	Documents
Geo tagged photos / videos of the facilities	No File Uploaded
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following
 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities

C. Any 2 of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and

B. Any 3 of the above

signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

File Description	Documents
Geo tagged photographs / videos of the facilities	No File Uploaded
Policy documents and information brochures on the support to be provided	No File Uploaded
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

To build youth of the nation who are noble in their attitude and morally responsible, the Institute organizes and conducted several activities to build and promote an environment for ethical, cultural, and spiritual values among the students and staff. To develop the emotional and religious feelings among the students and the faculty, commemorative days are celebrated in the campus with the initiative and support of the management for not only recreation and amusement but also to generate the feeling of oneness and social harmony. Teaching and Non-teaching staff of the Institute jointly celebrate the cultural and regional festivals, like Constitution day Fresher Party ,teacher's day, orientation and farewell program, Induction program, rally, oath, plantation, Youth day, Women's day, Yoga day, etc. But due COVID-19 restrictions, in 2020-21 it was not possible for Institute to take and celebrate all these programs in 100% capacity. Most of them were taken online. Motivational lectures of eminent persons of the field are arranged for all-round development of the students for their personality development and to make them responsible citizens following the national values of social and communal harmony and national integration. Besides academic and cultural activities, we have built up many strong infrastructures for a variety of sports activities for the physical development of the students. In this way the institute's efforts/initiatives in providing an inclusive environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic, and other diversities.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	No File Uploaded
Any other relevant information	No File Uploaded

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

Our Institute always takes lead for sensitization of students and employees to the constitutional obligations, values, rights, duties and responsibilities of citizens by taking initiatives like-

Constitution day Constitution Day is celebrated on 26th November every year. The programme initiates with Preamble reading of the constitution followed by lectures on the sensitization of students on responsibility towards the constitutional values, rights, duties and responsibilities of citizens.

Research Assessment Committee Institute always strives for the transparency in work and follows the ethics and values in research and protection of intellectual properties. RAC is research advisory committee which evaluates and suggests the research activities, research proposal, and synopsis and pre submission viva of research students of Institute of science.

Celebration of National Days Every year Institute celebrates Republic Day, Maharashtra Day and Independence day on January 26, May 01 and August 15 respectively. The celebration is attended by Students, Teaching and Non-teaching Staff, Invitees, guests and any attendees. Flag hosting with National anthem and oath of national integrity followed by distribution of sweets is the regular decorum of the program.

Social responsibility by Mask Donations Volunteers participated in Covid-19 prevention and community uplifting through the mask donation to poor. Masks were distributed to needy people. Mask Distribution Students of NSS, Institute of Science Distributed masks to common people and to those who needed. As whole country was locked down by Corona virus (COVID-19) it was difficult for the volunteers to carry a drive like this. But all the volunteers were determined to help the needy. Therefore, all the volunteers distributed masks in their

respective residential areas.

Awareness using YouTube Channel NSS volunteers took a collective step towards creating a YouTube channel to broaden their reach and spread awareness to people about COVID-19 pandemic through the wide platform of YouTube. <https://www.youtube.com/channel/UCumvXfFrEsMLNvXITt-DZ-A> various short videos were uploaded by the volunteers ranging from - why to wear masks to how to unlock yourself during this lockdown. Volunteers were eager to make videos and thus helped create different engaging videos for the channel.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	Nil
Any other relevant information	Nil

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized

File Description	Documents
Code of ethics policy document	No File Uploaded
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	No File Uploaded
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

To inculcate cultural, ethical and patriotic values, our institute celebrates national festivals and birth anniversaries of nationally important personalities. 1. Independence

Day: The programs of national importance are celebrated regularly.

2. Republic Day: The programs of national importance are celebrated regularly.

3. Birth Anniversary of Mahatma Gandhi: 2nd October is celebrated as Swacchata Divas under Swaccha Bharat Abhiyan.

4. Birth anniversary of Chhatrapati Shahu Maharaj 5. Birth anniversary of Lal Bahadur Shastri 6. Birth anniversary of Savitribai Phule 7. Birth anniversary of Dr. S. Radhakrishnan: Teachers' Day 8. Birth anniversary of Chhatrapati Shivaji Maharaj 9. Birth anniversary of Sardar Vallabhbhai Patel 10. Birth anniversary of Maulana Azad 11. Birth anniversary of Bhagat Singh 12. Birth anniversary of Swami Vivekanand: Youth day 13. Birth anniversary of Dindayal Upadhyay 14. Birth anniversary of Dr. B.R. Ambedkar 15. Birth anniversary of Mahatma Jyotiba Phule 16. Constitution Day 17. NSS Day 18. National Sports Day 19. Marathi Bhasha Gaurav day 20. Wild life week 21. Kranti Din 22. International Yoga Day All the above events are celebrated with the 50 percent e-participation of staff due to COVID-19 lockdown.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	No File Uploaded
Geo tagged photographs of some of the events	No File Uploaded
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Best Practices - At our Institute, till 2019, we considered Organic farming as a Best Practice as it promoted Green initiative by production of manure and vermi-compost and also imbibe the skills of students with earn and learn concept. But in Pandemic due to COVID -19 students were not suppose to attend the Institute due to COVID -19 norms, NSS students have taken big initiative in this period by catering services to society.

So our two best practices for period 2020-21 are as follows.

1. Title:

Goals

1. Conservation of Nature.
2. To reduce plastic waste by making Eco-bricks.

Context:

This initiative had been taking place in our Institute during epidemic of 'COVID' most of people were restricted to their house due to this virus.

Practice

Students collected the single used plastic from neighborhood, from other family members and friends and started filling this single use plastic in plastic bottle until it gets hard and totally full; that is one bottle of 2-liter capacity can hold 400-500 plastic wafers. This is great initiative taken by Institute student. During lockdown we have contributed our most of time to preserve nature and reduce plastic waste.

Evidence of success:

Eco Bricks are used to hedge and edge.

This practice enabled us to convert a waste material to a socially useful product

We could manage to reduce plastic waste and conserve nature.

2. Title: Catering to the needs of Society during pandemic

Goal: 1. To make people aware of detrimental effects of COVID-19.

2. To make necessary arrangement to help affected section of society during pandemic.

3. To Provide life saving equipments to the hospitals.

Context:

COVID-19 attained a grave form during second wave as many people succumbed to it. To perform social responsibility we have identified the areas for catering to the needs of

society. An Online Campaign was driven by NSS volunteers of Institute of Science, for spreading awareness about guidelines of lockdown to the students of that college.

Practice:

An online meet was conducted where the volunteers shared the guidelines given by Government officials to students. Importance of following condition and rules implied were shared. All the students and teachers pledged to follow the rules and regulations of the lockdown. Posters were made to create awareness regarding the symptoms, preventions, misconceptions, etc. Various students participated in many other poster competitions and created multitudes of colorful and informative posters.

Evidence of success:

- Mask Donations

Volunteers participated in Covid-19 prevention and community uplifting through the mask donation to poor. Masks were distributed to needy people. Students of NSS, Institute of Science distributed masks to common people and to those who needed. As whole country was locked down by Corona virus (COVID-19) it was difficult for the volunteers to carry a drive like this. But all the volunteers were determined to help the needy. Therefore, all the volunteers distributed masks in their respective residential areas.

- Contribution to Community Kitchen

Several volunteers of NSS Institute of Science bravely contributed to the community kitchen during second wave of Covid-19. Students worked with the NGO CO-19 for 30 days and provided food to needy people. They were involved in preparation of food, packing and distribution.

- DONATED OXYGEN CONTENTRATOR

Considering the need of the circumstance NSS unit of our Institute collected funds, to buy Oxygen Concentrator. As mentioned before, the situation was very helpless and thousands of people were dying due to lack of facilities and proper treatment. Giving the concentrator in Nagpur itself was not a very high priority because there were more unprivileged areas in the nation, suffering from the effects of pandemic. So, giving the concentrator in Nagpur was not into an option as the city had ample supply of facilities to be taken care of. After a proper survey and analysis carried out by the volunteers - the NSS Unit decided to

lend the concentrator in the Bamni Village, Tahashil - Ballarpur, District - Chandrapur. As, most of the volunteers were from Chandrapur district, this decision of donating the oxygen concentrator to Bamni village got the green signal because somehow, it would be easy for the volunteers to keep a watch on the management. The volunteers kept all their eyes very attentive and moved ahead keeping the entire organization into surveillance.

D. Awareness YouTube Channel NSS volunteers took a collective step towards creating a YouTube channel to broaden their reach and spread awareness to people about Covid-19 pandemic through the wide platform of YouTube. <https://www.youtube.com/channel/UCumvXfFrEsMLNvXITt-DZ-A> various short videos were uploaded by the volunteers ranging from - why to wear masks to how to unlock yourself during this lockdown. Volunteers were eager to make videos and thus helped create different engaging videos for the channel

File Description	Documents
Best practices in the Institutional website	Nil
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

The vision of our Institute is to inculcate scientific temper among students to address global challenges by producing scientifically trained leaders and innovators and enhancing public understanding of science. True to this vision, we encourage our students for scientific approach of their subject of interest. Encouraging them for global, local, academically challenged issues, we develop competitiveness. We boost them for this by providing scholarships not only from government but from different Philanthropist and Non-Government Organizations. Our vision takes us higher when students excel by making their name in the merit list; they get rewarded by the scholarship. Alumni Association of Institute (AASCON) sponsors around 20 scholarships but two Philanthropists made it more interesting by donating around 3 Crores. From last five years Institute has announced "Sukhdevji Maharaj of Saongi Memorial Scholarship, instituted by Late Dadi Balsara, an alumnus of Institute of science, Nagpur, in which students are getting cash price and a gold medal. The scholarship is awarded in six subjects, viz., Physics, Chemistry, Mathematics, Statistics, Botany and Zoology. The second one is Shankar Balwant Pandit memorial Scholarship, instituted by Vikram Pandit. This scholarship is for post graduate

students of Physics and Mathematics. The purpose of this scholarship is to help students whose parents are economically disadvantaged and who are meritorious as proven by consistent performance, to pursue their higher education, especially for the M. Sc. program. Institute always strive for these types of scholarships so that there is continuous encouragement for acquiring knowledge because of competitive environment. Moreover the needy students are able to continue their education. This is the most distinctive feature of our Institute that rarely offered by other Institutes.

File Description	Documents
Appropriate web in the Institutional website	No File Uploaded
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

The Institute strictly adheres and makes sincere meticulous efforts to follow the annual academic calendar. The future plans of Institute are as follows.

1. To improve teaching learning facilities by using online tools.
2. Atomization of Library.
3. To carry out extension activities for needy section of society.
4. To upgrade the infrastructure facilities to accommodate more students in hostels.
5. To upgrade administrative processes like, admission and result analysis.
6. To upgrade ICT facilities for classrooms and laboratories.
7. To strengthen the students, teachers and parents through parent-teachers meeting.
8. To ensure commencement of lectures and practical through daily theory and practical records.
9. To procure books for Library.
10. To get subscription of online journals and books.
11. To provide content enrichment to meritorious students.
12. To provide remedial coaching to academically weak students.
13. To make collaborative linkages with industries and academia.
14. To participate in NIRF.
15. To plan industry-academia workshop.
16. To arrange local and short excursion tours.
17. To visit industries and research institutes.
18. To manage biodegradable garbage at the source by doing composting.
19. To strengthen alumni participation.

20. To prepare plots for organic farming.
 21. To upgrade feedback system from manual to online.
 22. To develop necessary facilities for implementation of Autonomy.
 23. Providing Audio & Video system for the Seminar hall.
 24. Providing CCTV system to Library Building.
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